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FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER			
TRANSMITTAL LETTER TO THE UNITED STATES	0/97322US			
DESIGNATED/ELECTED OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CER 1.5)			
CONCERNING A FILING UNDER 35 U.S.C. 371 U9/555				
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED			
PCT/EP98/08128 8 DEC 1998	12 DEC 1997			
TITLE OF INVENTION A PACKAGE FOR A VAGINAL RING				
APPLICANT(S) FOR DO/EO/US Mervyn Joseph FREDERICK, Johannes Arthur Gerardus Johannes Maria VOGELS				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following	lowing items and other information:			
1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.	05 V 0 C 271			
2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under	r 35 U.S.C. 371.			
3. This express request to begin national examination procedures (35 U.S.C. 371(f)) at a examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) at A proper Demand for International Preliminary Examination was made by the 19th m	and PCT Articles 22 and 39(1).			
5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2))	•			
a. is transmitted herewith (required only if not transmitted by the Inter	rnational Bureau).			
 b. X has been transmitted by the International Bureau. c. is not required, as the application was filed in the United States Rec 	rejying Office (RO/US).			
6. A translation of the International Application into English (35 U.S.C. 371(c))(2)).			
7. X Amendments to the claims of the International Application under PCT Artic	cle 19 (35 U.S.C. 371(c)(3))			
a. are transmitted herewith (required only if not transmitted by the Int	ternational Bureau).			
b. have been transmitted by the International Bureau.				
c. have not been made; however, the time limit for making such amen	adments has NOT expired.			
d. X have not been made and will not be made.	· · · · · · · · · · · · · · ·			
8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.	S.C. 371(c)(3)).			
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).				
10. A translation of the annexes to the International Preliminary Examination R (35 U.S.C. 371(c)(5)).	Leport under PCT Article 36			
Items 11. to 16. below concern document(s) or information included:				
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.				
12. An assignment document for recording. A separate cover sheet in complian	nce with 37 CFR 3.28 and 3.31 is included.			
13. X A FIRST preliminary amendment.				
A SECOND or SUBSEQUENT preliminary amendment.				
14. A substitute specification.				
15. A change of power of attorney and/or address letter.	,			
16. Other items or information:				
Express Mail NO. EL087179937US				

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17. The follow	owing fees are submitte	4·		CA	LCULATIONS	PTO	USE ONLY
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		fee (37 CFR 1.482) not paid to					
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	preliminary examination search fee (37 CFR 1.44	fee (37 CFR 1.482) not paid to U 5(a)(2)) paid to USPTO	SPTO but \$690.00				
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CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE				
Total claims	7 - 20	=	X \$18.00	\$			
Independent claims	2 -3	=	X \$78.00	\$			
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$	40.00			
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A dupli	charge my Deposit Acco	ount No. $\frac{02-2334}{\text{s}}$ in t sence of the sence of t	he amount of \$	88	80.00 to cov	er th	e above fees.
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-2334. A duplicate copy of this sheet is enclosed.							
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.							
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

FREDERICK, Mervyn J., RIKKEN, Johannes M.G., and VOGELS, Arthur G.J.M.

Serial Number: To be assigned Group Art Unit: To be assigned

Filed: Concurrently herewith Examiner: To be assigned

For: A PACKAGE FOR A VAGINAL RING

Corresponding to: PCT/EP98/08128, filed December 8, 1998

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents Washington, D.C. 20231

May 31, 2000

Sir:

Prior to the calculation of the fee in the above-identified application, please make the following amendments:

IN THE CLAIMS:

Please amend the claims as follows:

- 1. (amended) An aseptic package enclosing an intravaginal article, the package being made of a laminate comprising, from the interior side to the exterior side, a layer of a sealable material, a barrier layer, and a damage protective layer, wherein the package comprises [means] a reclosable strip for reclosing it after opening, said [means] reclosable strip being in the form of a strip of polymeric material.
- 2. (amended) [A] <u>The</u> package according to claim 1, [characterised in that] <u>wherein</u> the sealable material is a heat-sealable polymer.
- 3. (amended) [A] The package according to claim 1 [or 2,

characterised in that], wherein the barrier layer is a metal foil.

- 4. (amended) [A] <u>The</u> package according [claims 2 and 3, characterised in that] <u>to claim 2, wherein</u> the heat-sealable polymer is polyethylene, the <u>barrier layer</u> [metal foil] is aluminum <u>foil</u>, and the damage protective layer is a polyester film.
- 5. (amended) [The use of] A method for the aseptic packaging of an intravaginal article comprising placing the article into a sachet made of a polyethylene aluminum foil laminate and a polyester outer layer, comprising a plastic rib-and-groove reclosing means, [for the aseptic packaging of an intravaginal article, the laminate being provided with a polyester outer layer].
- 6. (amended) [A use of according to claim 5, characterized in that the laminate comprises] The package according to claim 1, comprising a low density polyethylene inner layer of 35-45 μ m, an aluminum foil barrier layer of 8-10 μ m, and a PET protective outer layer of 10-14 μ m.

Please add the following new claim:

-- 7. The package according to claim 1, wherein the reclosable strip comprises a rib-and-groove reclosing means. --

REMARKS

Claims 1 - 6 are amended and claim 7 is added. Claims 1 - 7 are presented for examination.

It is believed that claims 1 - 7 recite a patentable improvement in the art. Favorable action is solicited. In then

event any fees are required with this paper, please charge our Deposit Account No. 02-2334.

Respectfully submitted,

William M. Blackstone Attorney for Applicants Registration No. 29,772

Attorney Docket NO. 0/97322 US

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WMB:jlc

50FREDERICK-PRELIMINARY

In packaging such vaginal rings, several problems need to be overcome. The package should be capable of maintaining the ring in an uncontaminated state. The package should prevent influences from the environment, such as light, moisture, and microorganisms, from affecting the vaginal ring. Furthermore, the package should prevent the active substances present in the ring, from leaking to the environment. The latter not only is important during shipping and storing, but in fact throughout the life of the vaginal ring. A vaginal ring is typically used domestically, and could lead to contamination of spots in the house with active substances or contaminated fluids from the vagina, or undesirable contact with children. Correct handling of the ring after use use is therefore essential. On the other hand, for the package to be economically feasible, ready for use, and easy to handle, it should not be of complex design, and it should simply be capable of being in direct contact with the ring, and properly enclosing it and protecting it, nothing more and nothing less.

Such solutions for packaging vaginal rings have not been described in the art. US 4,692,143 pertains to a package containing a vaginal sponge. The disclosure does not relate to packaging a vaginal ring and does not provide any teaching beyond a most general one on using impervious materials.

US 4.620.534 pertains to a sterile package containing an apparatus for inserting an intravaginal article. The disclosure does not pertain to packaging the articles themselves (as these are contained in the insertion apparatus), nor does it relate to

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vaginal rings. Moreover, the package does not come into direct contact with the intravaginal article. For, apart from the fact that the disclosure pertains to packaging the insertion apparatus containing the article rather than packaging the article itself, it is taught that, if contamination should be a problem, a sleeve is to be provided around the article. Hence, the disclosure is not applicable to the problem of the present invention, which is in seeking a direct packaging solution for a vaginal ring, i.e. including a primary pack that is in direct contact with the ring.

Surprisingly, a type of package, which is of a general class known in itself, has been devised which simultaneously solves all of the above problems. The invention thus resides in the novel use, for packaging a vaginal ring, of a sachet made of a laminate comprising, from the interior side to the exterior side, a layer of a polymeric sealable material, a barrier layer, and a damage protective layer, wherein the layer of the polymeric sealable material is provided, on the inside, with a strip of polymeric material capable of being opened and reclosed, such as a rib and a groove fitting together.

From the viewpoint of avoiding waste of materials, safe handling, and efficient daily practice, the present invention provides an integral packaging solution, which is a major step forward as compared to all kinds of separate boxes or enclosures, or hiding places, that have been or might be devised in order to avoid the active substances of a medicated intravaginal article, and contaminants associated with the used ring, from entering the environment.

It should be noted that, by their very nature, packages which are intended to maintain the quality of aseptically packed or sterile products, lose their purpose after opening, and are disposed of directly. It is a solution quite opposite to what is customary in the art, to provide an aseptic package with means to reclose it. It should further be noted that, in view of the medicated nature of the vaginal ring, it is an essential finding that both the layer of sealable material and the reclosing strip provided on that layer, both

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being on the inside of the sachet, hence in direct contact with the vaginal ring, be of a pharmaceutically acceptable polymeric material which is compatible with the active substances present in the ring.

- Thus, in an unexpectedly simple manner, a package is provided which not only serves the purpose of maintaining the aseptic quality during storing and shipping of the medicated vaginal ring, but also provides the possibility to avoid any influence of the environment on the ring (or vice versa) throughout the life of the ring.
- Thus, the basic inventive thought is in the recognition that, contrary to the fundamentals of aseptic and sterilised packaging, a substantial improvement has been achieved by engineering into the package a reclosable feature (reclosing means) for a distinct after use function. The invention, in a preferred embodiment, particularly pertains to the use of a specific type of reclosable package, viz. a laminated foil sachet comprising a rib-and-groove reclosing means, for the aseptic packaging of an intravaginal article.

A package which is in direct contact with a medicated vaginal ring cannot simply be made of a randomly taken material. Several pharmaceutically acceptable materials, mainly plastics, are available which, in the general art of packaging, are used as primary packaging materials. However, one cannot make a suitable sachet thereof. All of such materials take up (absorb) active substance from the medicated article. If a relatively thin layer were used, the absorption capacity is low, but the migration rate will be too high, so the active substances will be able to pass through the layer relatively quickly. A thick layer will facilitate a lower rate of migration, hence a longer period of time needed for permeation through the material, but a thick layer has a higher capacity to take up (in fact, absorb) active substance from the medicated intravaginal article, which eventually leads to an even higher loss of active substance. Further, the package needs to be sufficiently strong in order for it to withstand the damaging effects of handling, transport, and mishandling. It has now been found that

this complex of problems can be overcome as a result of the proper choice of the combination of the layers in the package, viz. a layer of a polymeric sealable material, a barrier layer, and a damage protection layer.

- Such laminated packages in themselves are known and are in use for all kinds of products, such as foodstuffs and medicines, which sometimes are packed in reclosable sachets. None of the prior art disclosures relates to providing an aseptic package for a vaginal ring.
- Thus US 3,827,472 discloses a flexible bag structure for packing foodstuffs and the like, which comprises a polymeric inner layer having an integral, plastics, rib-and-groove reclosing feature. For the e.g. cellophane and paper are mentioned. The disclosure does not pertain to the packaging of vaginal rings, nor to the specific requirement for the layers in the laminate of the present invention.

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JP 07/223,653 discloses a laminated packaging bag comprising a seal surrounding the bag and a slideable clip fastener. As a possibility for the primary pack, a laminate of aluminium and polyethylene layers is disclosed. The bag lacks the damage protection layer needed for reliable aseptic or sterile packaging and is used for packaging medicines and foods, rather than vaginal ring.

Several other disclosures exist on laminated packaging films for foods, drugs, granules, or implants, explicitly or implicitly comprising barrier layer and heat seal layers such as aluminium/polyethylene foils. As background disclosures in this respect are mentioned JP 09/142525, EP 709 304, JP 04/253645, JP 04/200549, and BE 690947. None of these disclosures pertains to packaging vaginal rings or to reclosable packages.

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Several reclosable bags are known for packaging dangerous fluids, or for other general industrial or household uses. Reference is made to EP 239 319, EP 515 985, US 5,172,980 and US 5,372,429 as background disclosures in this respect.

The person of ordinary skill in the art is capable of putting together the various parts of the present package, including manufacturing the laminated foil and providing the reclosable strip, without undue burden. For, as a general technical concept, the present package for a vaginal ring makes good use of methods and materials that have been known before, e.g. from the aforementioned disclosures. It is particularly in combining the various essential elements of the present invention, that a novel and surprisingly advantageous package for a vaginal ring can be provided.

On the various elements the following can be said.

The layer of sealable material forms the inner layer of the package. It should have the property of being sealable such that, at the edges of the package, two opposite surfaces of the layer can be inseparably adhered together. In principle, all cold or heat sealable materials can be used, with heat-sealable materials being preferred. As the material is in direct contact with the vaginal ring, it must be a pharmaceutically acceptable polymer. Suitable heat-sealable materials include polyethylenes, copolymers or combinations with polyethylene such a polyethylene - ethylene vinyl acetate, polyamides, Surlyns (tradename for a type of polyethylene known as ionomers). It is preferred to use polyethylenes, of all grades, low, medium, and high densities. This not only for the sake of sealing properties, but also because among the polyethylenes are the materials which cause the least absorption of active substances from the vaginal ring. In view of the favourable absorption characteristics, another preferred material is ethylene vinyl acetate copolymer, notably with a relatively low content of vinyl acetate (preferably below 10%, e.g. Evatane 1020 VN3 (9% vinyl acetate content).

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Low-density polyethylene (LDPE) is the most preferred sealable material. It has excellent sealing properties, a good melt flow, and it produces a high bond strength at temperatures which are easily achieved by normal heat sealing machines, which operate on a bar seal or roller seal principle. The good melt flow ensures a good spread of the sealing layer and a good fusion of the contacting surfaces forming the seal, to create a hermetic seal which is impervious to microbes and bacteria. Once a seal has been obtained, it is virtually impossible to separate the materials forming the bond. This is essential in order to ensure that once the ring has been packed in the sachet, the ring will remain of low bioburden from the moment of packaging and during all stages of handling and transport until the pack is opened for removing the ring. The term "bioburden" is used to refer to both the level of micro-organisms or bacteria present as well as to the level of contamination by micro-organisms that may be caused. Moreover, LDPE was found to be a surprisingly excellent choice for being in direct contact with the vaginal ring. This material does not promote migration of active ingredients from the ring into the sealing layer and the degree of absorption of the active materials has been found to be virtually negligible.

The thickness of the layer of sealable material will generally be of from 10 to 80 μ m, and preferably 30-60 μ m. As a rule, a thickness of below 10 μ m will give problems with the sealability, while a thickness of more than 80 μ m results in too large a reservoir for absorption of active substances from the ring.

The barrier layer can in principle be made of any metal foil-containing material, such as aluminium foil, tin foil, gold foil, metallized coatings which may be on plastics films, and the like. Also suitable are coatings of oxides such as aluminium oxides, silicon oxides, and nitrides on plastic substrates such as polyester films and the like. The barrier layer prevents any possibility of active materials diffusing through the layers of the primary pack.

Aluminium foil is the most preferred barrier layer. This foil has optimal properties with regard to impermeability to light, micro-organisms, gases, vapours, and active substances, thus providing the best possible protection of the vaginal ring against light and maintaining a low bioburden until use. Aluminium foil also is a surprisingly favourable choice as far as preventing potential loss of active material from the ring to the outside of the pack, as well as avoiding the risk of contamination of the outside of the primary package. Thus, the stability and consistency of the ring is preserved, and anyone handling the sachet in which the ring is stored, is prevented from inadvertently coming into contact with the active ingredients of the ring.

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The thickness of the barrier layer will generally be of from 7 to 25 μ m for metal foils, of from 1 to 2 μ m of metal for metallized coatings on plastic foils, and of from 0.1 to 1 μ m of oxide for oxide coatings.

The damage protective layer can be made from all sheet materials that have sufficient strength and are sufficiently tear-resistant, such as polypropylene, polyamide, cellophane, paper. The most preferred damage protective layer is made of polyester (polyethylene terephthalate).

It should be noted that the laminated packages known in the art do not contain such an additional external damage protective layer. If the state of the art metal foil/plastics sealing layer laminated packages are to be used for products where the level of bioburden must be guaranteed to be low, the laminate used should be unduly thick. If a thick metal layer were used, the package would become difficult to produce on regular machines. If a thick plastics sealing layer were used, the aforementioned problem of absorption capacity of active substances from the ring would be incurred to an unnecessary and unacceptable extent, and the initial opening the sachet to remove the ring would not be easy and would requiring the use of a helping device such as a pair of scissors etc. It is by the very measure of including a separate damage

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protective layer, which can be readily torn open by hand, that all of the requirements for the package are most elegantly satisfied.

The thickness of the damage protective layer will generally be of from 10 to 30 μ m for plastics and from 30 to 60 g/m² for paper.

The reclosable strip can be based on any opening-closing mechanism in which one or more protrusions are associated with corresponding indentations. Such strips are known in the art. The best example thereof is a rib and corresponding groove along the entire length of the strip. For the rib, and thus also for the groove, several different profiles can be chosen. It is essential that the reclosable strip is made of a polymeric, or polymer-based, or elastomeric material, e.g. high-density polyethylene, polypropylene, and the like, all of which must be of acceptable pharmaceutical grade. This is not only for manufacturing reasons (in principle it is standard technology to provide a plastic package with a plastic reclosable strip), but also because the strip, as an essential component of the primary packaging materials, is on the inside of the sachet and thus the edges thereof may come into contact with the vaginal ring. The reclosable strip, being of relatively substantial mass with respect to the potential for absorption of active constituents from the vaginal ring, is most preferably chosen of high-density polyethylene, as this material displays a significantly low level of absorption of active substances from the ring, and upon such absorption even ceases to absorb further.

The production of the walls of the sachet may be achieved via a conventional laminating process. The reclosable strip can made by continuous extrusion, but may also be manufactured using other processes such as moulding, injection moulding, and the like. Making an assembly of the laminated package and the reclosable strip can be done by conventional processes such as heat sealing, ultrasonic welding, or by employing adhesives. After being provided with the reclosable strip and after being cut and formed into a sachet of the appropriate dimensions, the package is ready to

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contain a vaginal ring, after which the ring is inserted and the sachet is sealed under aseptic conditions.

The most preferred, as an excellent, though simple packaging solution, is the use of the type of sachet known for packaging chewing gum and the like, which has the aforementioned closing means and in which the successive layers are 35-45 μ m (more preferably 40 μ m \pm 4 μ m LDPE (inside) as a sealing layer, 8-10 μ m (more preferably 9 μ m \pm 0.7 μ m) aluminium foil as a barrier layer, and 10-14 μ m (moe preferably 12 μ m \pm 1.2 μ m) PET (outside) as a damage protective layer. The closing strip in these preferred sachets is made of LDPE and has a single rib-groove profile.

The invention is hereinafter further explained with reference to the drawings.

FIG. 1 is a front-side view of a sachet of the invention, with the side to be opened positioned downwards. FIG. 2 is a cross-section along the line A-A in FIG. 1.

The sachet in FIG.1 is shown to have a sealed edge B, wherein the opposite inner layers have been sealed together (normally after the ring has been inserted), side seals C, which are formed by heat sealing opposite layers of the material prior to filling, a folded section of the laminate D, a reclosable strip E, and notches F. These notches serve to enhance the easy opening of the otherwise damage-protected, hence strong, material at a position beyond the part that can be opened and re-closed by means of the reclosable strip C.

In FIG. 2 are depicted the fold D, and the reclosable strip E, the latter comprising a rib G and a groove H.

Claims

5 1. An aseptic package enclosing an intravaginal article, the package being made of a laminate comprising, from the interior side to the exterior side, a layer of a sealable material, a barrier layer, and a damage protective layer, wherein the package comprises means for reclosing it after opening, said means being in the form of a strip of polymeric material.

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- 2. A package according to claim 1, characterised in that the sealable material is a heat-sealable polymer.
- 3. A package according to claim 1 or 2, characterised in that the barrier layer is a metal foil.
 - 4. A package according claims 2 and 3, characterised in that the heat-sealable polymer is polyethylene, the metal foil is aluminium, and the damage protective layer is a polyester film.

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- 5. The use of a sachet made of a polyethylene aluminium foil laminate and comprising a plastic rib-and-groove reclosing means, for the aseptic packaging of an intravaginal article, the laminate being provided with a polyester outer layer.
- 6. A use according to claim 5, characterized in that the laminate comprises a low-density polyethylene inner layer of 35-45 μm, an aluminium foil barrier layer of 8-10 μm, and a PET protective outer layer of 10-14 μm.

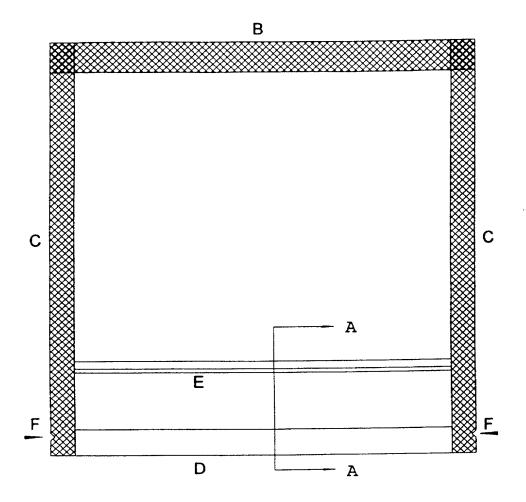


Fig. 1

CROSS SECTION A-A

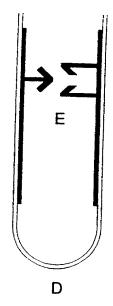


Fig. 2

The last two laws and the last two last

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as $\underline{\text{stated}}$ below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original first and joint inventor (if plural names are listed below) of the subject matter for which a patent is sought on the invention entitled:

"A package for a vaginal ring"

the	spe	cification	of	which
[CHE	CK	ONE]		

[]is attached hereto

[] was filed	d on	as Application Serial No.
	and was amended on	
annligable!		

[if applicable]

[X] as filed under the Patent Cooperation Treaty on 08 December 1998
Serial PCT/EP98/08128, The United States of America being designated.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined Title 37, Code of Federal Regulations Section 1.56(a)

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign applications(s) for patent or inventor's certificate having a filing date before that of the application(s) on which priority is claimed:

Prior Foreign	Application(s)		Prior	city cla	imed
97203910.1	EP	12/ 12 / 1997	X	Yes	No
Number	Country	Day/Month/Year filed			
	_	/_/		Yes	No
Number	Country	Day/Month/Year filed			
		_/		Yes	No
Number	Country	Day/Month/Year filed			

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose to the patent and Trademark

Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which

	the filing date of the prior application(s) and ational filing date of this application.
(U.S. Serial No.) (Fili	ing date) (Status-patented, pending, abandoned)
(U.S. Serial No. (Fili	ing date) (Status-patented, pending, abandoned)
Registration No. 29,772, Ma	s principal attorney, William M. Blackstone, ary E. Gormley, Registration No. 34,409, cration No. 35,293 and Michael G. Sullivan,
AKZO 1300	cations to: lam M. Blackstone NOBEL Piccard Drive #206 ville, MD 20850-4373
true and that all statement be true; and further that that willful false stateme or imprisonment, or both, States Code and that suc validity of the application	statements made herein of my own knowledge are ts made on information and belief are believed to these statements were made with the knowledge ents and the like so made are punishable by fine under section 1001 of Title 18 of the United the willful false statements may jeopardize the n or any patent issued theron.
foll name of sole or first	inventor <u>EREDERICK Mervyn Joseph</u>
Inventor' signature	Menyn Frederick. 22 MAY 2000 Date
Citizenship	Dutch
Residence and P.O. Address	Witte Hoeflaan 20
77	5343 EH Oss,The Netherlands
Full name of second joint :	inventor RIKKEN, Johannes Mathias Gerardus
Inventor's signature	22 May 200
Citizenship	Date Dutch
Residence and P.O.Address_	Orion 51
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